

PB192510

DOT HS 610 110

COMPLIANCE TEST REPORT

FEDERAL MOTOR VEHICLE SAFETY STANDARD NO. 109
(TIRES)

SEMPERIT OSTERRICHISCH-AMERIKANISCHE GUMMI WERKE
AKTIENGESELLSCHAFT (AUSTRIA)

JULY 1970



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U.S. DEPARTMENT OF TRANSPORTATION / NATIONAL HIGHWAY SAFETY BUREAU

①

on 2-in. unit 5.60 X 15 (4 ply), 7.00 X 13 (4 ply),
7.35H X 14/185H X 14 (4-ply sidewall/6-ply tread),
185SR X 14 (2/6 ply), and 185HR X 14 (2/6 ply) tires

This report pertains to tests conducted by an independent contractor as part of the National Highway Safety Bureau's compliance testing program to determine whether or not motor vehicles and items of motor vehicle equipment comply with applicable Federal Motor Vehicle Safety Standards. () ←

The material discussed here, especially the test results, does not reflect the NHTSB's position on the matter. Favorable test results should not be interpreted as necessarily establishing that the vehicle or item of equipment is in conformity with any of the relevant Federal Safety Standards; similarly, unfavorable test results should not be interpreted as establishing nonconformance with the Federal standards.

It is the policy of the NHTSB to initiate an investigation into any matter where unfavorable test results are produced. Once the investigation is completed, the public will be duly informed of the Bureau's disposition of the matter.

NATIONAL HIGHWAY SAFETY BUREAU

COMPLIANCE TEST PROGRAM - REPORTS SUBMITTED

MONTHLY REPORT -

FMVSS 109

New Pneumatic Tires - Passenger Cars

Manufacturer: Semperit Österreichisch-Amerikanische Gummi Werke
Aktiengesellschaft (Austria)

DOT HS 610 110

Reports Submitted:

<u>Brand Name</u>	<u>Tire Name</u>	<u>Size</u>	<u>Results</u>	<u>Test No.</u>
Semperit	Favorit	560-15	Passed	S9S7238
Semperit	Favorit	700-13	Failed-Physical Dimension	G9S4010
Semperit	M214	735H-14 185H-14	Failed-Physical Dimension	G9S4013
Semperit	Supersport MAS	185SR14	Passed	G9S4012
Semperit	Supersport	185HR14	Passed	G9S4011

San Antonio, Texas

Test No. 5757258

TIRE COMPLIANCE TEST

Test No. S.W.

Federal Motor Vehicle Safety Standard 109

Tire Identification

Brand Name SEMPERIT Manufacturer SEMPERIT DOT No. L26
Tire Name EMERIT Actual Plies 4 Ply Rating 4
Size 5.60-15 Type/Construction TUBELESS/BIAS
Cord Material RAYON

<u>Test Phase</u>	<u>Tire</u>	<u>Remarks</u>
Labeling	A	<u>OK</u>
	B	<u>OK</u>
	C	<u>OK</u>
Physical Dimension	A	<u>OK</u>
Bead Unseating	A	<u>OK</u>
Strength	A	<u>OK</u>
Endurance	B	<u>OK</u>
High Speed	C	<u>OK</u>

NOT REPRODUCIBLE

Tested to OPA Test Procedure dated F.M.V.S.S. 109 4/2/69 Revised 5/2/69

Except for _____

Submitted By: _____ Date: 5/2/69

R. N. Pierce
Senior Research Engineer

(Signature and Title)

④

McDonald
5-19-70

2

Labeling Requirements

Tire I.D. No.

Legend

S = Serial Side Only Federal Motor Vehicle Safety Standard 109
O = Opposite Side Only

Date: 3-25-70

3

4

Brand Name SEMPERIT Manufacturer SEMPERIT DOT No.

5

Tire Name FAVORIT Actual Plies 4 Ply Rating 4

6

Size 5.60-15 Type/Construction TUBELESS

7

Serial No. 2P Cord Material RAYON

8

Max. Infl. Press. 32 Max. Load Rating 970

9

Tread Wear Indicator Check: 1/16 inch Yes ☒ No ☐

PHYSICAL DIMENSION DATA

10

Pretest Inspection OK Date: 4-24-70

11

Specified Infl. Press. 24 PSI Rim Size & No. 14 x 4.5 / 3058

Conditioning:

12

Start: Date & Time 4-24-70 1630 Infl. Press. 24 PSI Room Temp. 75 F

13

End : Date & Time 4-27-70 0925 Infl. Press. 23 PSI Room Temp. 72 F

14

Inflation Pressure Adjusted To: 24 PSI

15

Over All Width Section Width

1. 5.75	1. 5.74
2. 5.84	2. 5.80
3. 5.80	3. 5.84
4. 5.80	4. 5.76
5. 5.82	5. 5.75
6. 5.78	6. 5.74
Avg. <u>5.82</u>	Avg. <u>5.78</u>

16

17

O.D. 25.95

18

Max. Section Width Plus 7% 6.11 Avg. SW 5.78

19

Minimum Size Factor 30.87 Actual Size Factor 31.33

20

Dimensions Taken By: R. Hall Date: 4-29-70

21

Report Approved By: [Signature] Date: 4-30-70
(Signature and Title)

NOT REPRODUCIBLE

[Signature]
R. N. Pierce
Senior Research Engineer

⑤

[Signature]
5-19-70

Revised May 5, 1969

SOUTHWEST RESEARCH INSTITUTE
Department of Structural Research
San Antonio, Texas

Test No.

Tire I.D. No. A

5,60.15

117

TUBELESS TIRE BEAD UNSEATING RESISTANCE

Rim No. 2000

Federal Motor Vehicle Safety Standard 109

Tire Infl. Press. 24

Date: 4-29-70

Force Applied to Unseat Bead

1. 1515
2. 1515
3. 1515
4. 1520
5. 2125 Unseat

Minimum Acceptable Force 1500

Test Performed By: [Signature]

Date: 4-29-70

Report Approved By: [Signature]

Date: 4-29-70

(Signature and Title)

TIRE STRENGTH

Specified Infl. Press. 24 PSI Initial PSI 24 End/3 Hrs. 24 PSI

Adjusted To 24 PSI Date Started 4-29-70 Time 1515

Force - Pounds	Penetration - Inches	Energy - Inch-Pounds
1. <u>2045</u>	1. <u>3.15</u>	1. <u>1174</u>
2. <u>240</u>	2. <u>3.19</u>	2. <u>1181</u>
3. <u>235</u>	3. <u>3.20</u>	3. <u>1176</u>
4. <u>220</u>	4. <u>3.20</u>	4. <u>1162</u>
5. <u>900</u> <u>(100)</u>	5. <u>4.15</u>	5. <u>1302</u> <u>(72)</u>

Minimum Breaking Energy Required: 1000

Actual Avg. 1174

Test Performed By: [Signature]

Date: 4-29-70

Report Approved By: [Signature]

Date: 4-29-70

(Signature and Title)

R. N. Pierce
Senior Research Engineer

⑥ [Signature] 5-019-70

NOT REPRODUCIBLE

SOUTHWEST RESEARCH INSTITUTE
Department of Structural Research
San Antonio, Texas

Test No. 5757228BTire I.D. No. B**Legend**

S = Serial Side Only
O = Opposite Side Only

LABELING REQUIREMENTS

Federal Motor Vehicle Safety Standard 109

Brand Name SEMPERIT Manufacturer SEMPERIT DOT No. —
Tire Name FAVORIT Actual Plies 4 Ply Rating 4
Size 5.60-15 Type/Construction TUBELESS
Serial No. EP Cord Material RAYON
Max. Infl. Press. 32 Max. Load Rating 970
Tread wear indicator Check: 1/16 inch Yes ☒ No ☐

ENDURANCE**NOT REPRODUCIBLE**Pretest Inspection OK Rim Size & No. 15x4T - 3011Rim Condition OKInitial Infl. Press. 24 PSI Wheel Position 4Conditioning Date & Time at 100°F ± 5: Start 4-16 1115 End 4-16 1930 Total hrs. 8.5Infl. Press. Adjusted From 26.5 PSI To 24.0 PSI

	LOADING		
	4 hours	6 hours	24 hours
Date	<u>4-16 14-16</u>	<u>4-16 14-17</u>	<u>4-17 14-17</u>
Time	<u>1930 2330</u>	<u>2330 0530</u>	<u>0530 1630</u>
Rate & Time, Start/End			
Required load, lbs.	<u>815</u>	<u>895</u>	<u>970</u>
Tare load, lbs.	<u>0</u>	<u>0</u>	<u>0</u>
Dead Weight, lbs.	<u>na</u>	<u>na</u>	<u>na</u>
Load Arm Ratio	<u>na</u>	<u>na</u>	<u>na</u>
Dead Weight Load, lbs.	<u>na</u>	<u>na</u>	<u>na</u>
Total Load, lbs.	<u>815</u>	<u>895</u>	<u>970</u>

Test Speed (MPH) 50 50 50Wheel Room Temp. °F at Start/End 102 98 98 97 91 91Tire Infl. Press. End of Period 21.6 21.7 21.7Post Test Inspection (Tire & Rim) OKRemarks: ② MD Henry 5-19-70Test Performed By: Red T. ... Date: 4-16-70Report Approved By: ... Date: 4-16-70

[Signature]
R. W. Purce
Senior Research Engineer

Legend

S = Serial Side Only
O = Opposite Side Only

SOUTHWEST RESEARCH INSTITUTE
Department of Structural Research
San Antonio, Texas

Test No. 59S72220

Tire I.D. No. C

LABELING REQUIREMENTS

Federal Motor Vehicle Safety Standard 109

Date: 3-25-70

Brand Name SEMPERIT Manufacturer SEMPERIT DOT No. -

Tire Name FAVORIT Actual Plies 4 Ply Rating 4

Size 5.60-15 Type/Construction TUBELESS

Serial No. EP Cord Material RAYON

Max. Infl. Press. 32 Max. Load Rating 970

Tread Wear Indicator Check: 1/16 inch Yes ☒ No ☐

HIGH SPEED PERFORMANCE

Pretest Inspection OK Rim Size & No. 15x4J -3055

Rim Condition OK

Initial Infl. Press. 30 PSI Wheel Position 3

Conditioning Date & Time at 100 ± 5°F Start 1945 4-17 End 1020 4-20 Total Hrs. 27

Infl. Press. Adjusted: From 31.2 PSI To 30.0 PSI

HIGH SPEED

R. N. Pierce
R. N. Pierce
Senior Research Engineer
Date 5/15/70

50 mph Break-in	Cooling Period	75 mph 1st cycle	80 mph 2nd cycle	85 mph 3rd cycle
Date <u>4-20/4-20</u>	Date <u>4-20/4-20</u>	Date <u>4-20/4-20</u>	Date <u>4-20/4-20</u>	Date <u>4-20/4-20</u>
Time <u>1000/1200</u>	Time <u>1200/1400</u>	Time <u>1400/1430</u>	Time <u>1430/1500</u>	Time <u>1500/1530</u>
Required Load <u>815</u>	<u>0</u>	<u>815</u>	<u>815</u>	<u>815</u>
Tare load, lbs. <u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Dead Weight, lbs. <u>na</u>				
Load Arm Ratio <u>na</u>				
Dead Weight load, lbs. <u>na</u>				
Total load, lbs. <u>815</u>	<u>0</u>	<u>815</u>	<u>815</u>	<u>815</u>
Test Speed mph <u>50</u>	<u>0</u>	<u>75</u>	<u>80</u>	<u>85</u>

Wheel Room Temp. °F Start/End 99/100 100/97 97/96 100/90 100/99

Tire Infl. Press. End of Period 350 340 340 345 345

Post Test Inspection (Tire & Rim) OK

Remarks: (8)

Test Performed By: R. N. Pierce Date: 5/15/70

Report Approved By: R. N. Pierce Date: 5/15/70

(Signature and Title)

NOT REPRODUCIBLE

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

TIRE COMPLIANCE TEST

TEST NO. G95 4010 A

FEDERAL MOTOR VEHICLE SAFETY STANDARD 109

TIRE IDENTIFICATION

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME FAVORIT ACTUAL PLYS 4 PLY RATING 4
SIZE 7.00-13 TYPE/CONSTRUCTION BIAS
CORD MATERIAL RAYON

<u>TEST PHASE</u>	<u>TIRE</u>	<u>REMARKS</u>
<u>LABELING:</u>	A	<u>SATISFACTORY</u>
	B	<u>SATISFACTORY</u>
	C	<u>SATISFACTORY</u>
<u>PHYSICAL DIMENSION</u>	A	<u>FAIL</u>
<u>BEAD UNSEATING</u>	A	<u>SATISFACTORY</u>
<u>STRENGTH</u>	A	<u>SATISFACTORY</u>
<u>ENDURANCE</u>	B	<u>SATISFACTORY</u>
<u>HIGH SPEED</u>	C	<u>SATISFACTORY</u>

TESTED TO OFA TEST PROCEDURE DATED 4-9-69 REVISED 5-5-69

EXCEPT FOR _____

SUBMITTED BY: [Signature] DATE 6-4-70

LABORATORY SUPERVISOR

(Signature and Title)

[Signature]
6-10-70

⑨

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 TIRE DIMENSION, BEAD UNSEATING AND STRENGTH TEST RECORD

TIRE IDENTIFICATION

TEST NO. G9S4010A

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME FAVORIT ACTUAL PLIES: TREAD 4
SIDEWALL 4
PLY RATING 4 SIZE 7.00-13 TYPE/CONSTRUCTION Bias
SERIAL NO. 1710 T95 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32.0 PSI MAX. LOAD RATING 1270 LBS
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PHYSICAL DIMENSION DATA

Pretest Inspection SATISFACTORY DATE 6-1-70
SPECIFIED INFL. PRESS. 24.0 PSI RIM SIZE & NO. 13-5-J-3

CONDITIONING:

START: DATE & TIME 6/1/70 1600 INFL. PRESS. 24.0 PSI ROOM TEMP. 72 °F
END: DATE & TIME 6/2/70 1600 INFL. PRESS. 24.0 PSI ROOM TEMP. 72 °F
INFLATION PRESSURE ADJUSTED TO: 24.0 PSI

OVER ALL WIDTH

1. 7.12
2. 7.12
3. 7.13
4. 7.13
5. 7.12
6. 7.13
Average 7.13

SECTION WIDTH

1. 7.04
2. 7.04
3. 7.04
4. 7.03
5. 7.04
6. 7.04
Average 7.04

O.D. $24 \frac{1}{4} = 24.64$

MAX. SECTION WIDTH PLUS 7% 7.60 Avg. SW. 7.04

MINIMUM SIZE FACTOR 31.88 ACTUAL SIZE FACTOR 31.68 FAIL

DIMENSIONS TAKEN BY: CLARK DATE: 6-2-70 js.

REPORT APPROVED BY: *[Signature]* DATE: 6-3-70

(Signature and Title)

10

[Signature] 6-10-70

Test No. C954010A

TUBELESS TIRE BEAD UNSEATING RESISTANCE

TIRE INFL. PRESS. 24.0

DATE: 6/2/70

FORCE APPLIED

1. ~~200~~ 2050 lbs
2. 2050 lbs
3. 2050 lbs
4. 2050 lbs
5. 3275 lbs UNSEAT

Minimum Acceptable Force 2000 lbs

TEST PERFORMED BY: CLARK

DATE: 6/2/70

REPORT APPROVED BY:

J. Garman
(Signature and Title)

DATE: 6/3/70

TIRE STRENGTH

SPECIFIED INFL. PRESS. 24.0 PSI INITIAL PSI 24.0 END/3 Hrs. 24.0 PSI

ADJUSTED TO 24.0 PSI DATE STARTED 6-3-70 TIME 1045

FORCE - POUNDS

1. 1020 LBS.
2. 1005
3. 1020
4. 1020
5. 1030

PENETRATION-INCHES

1. 3.38 in.
2. 3.40
3. 3.41
4. 3.42
5. 3.53

ENERGY - INCH-POUNDS

1. 1724
2. 1709
3. 1739
4. 1744
5. 1818

MINIMUM BREAKING ENERGY REQUIRED: 1650 in LBS.

ACTUAL AVG. OVER 1650

TEST PERFORMED BY: STROUD & CLARK

DATE: 6-3-70

REPORT APPROVED BY:

J. Garman
(Signature and Title)

DATE: 6-3-70

⑪

J. Deauville
6-10-70

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 TIRE ENDURANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. 6994010B

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. - 176
TIRE NAME Fabrit ACTUAL PLYS: TREAD 4
SIDEWALL 4
PLY RATING 4 SIZE 7.00-13 TYPE/CONSTRUCTION Bias
SERIAL NO. 1709T95 CORD MATERIAL Rayon
MAX. INFLATION PRESSURE 32.0 PSI MAX. LOAD RATING 1270 LBS
TREAD WEAR INDICATOR CHECK: YES ☒ NO ☐

PRE-TEST INSPECTION

TIRE INSPECTION Satisfactory
RIM SIZE AND NO. 13.5-1-1 RIM CONDITION Satisfactory
INITIAL INFLATION PRESSURE 24.0 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 5/28/70 (hrs.) 5 / 28 / 70
FINISH 5/28/70 (hrs.) 5 / 28 / 70
TOTAL CONDITIONING TIME 4 (hrs.) - (mins.)
INFLATION PRESSURE ADJUSTED FROM 24.0 PSI TO 24.0 PSI

ENDURANCE TEST

TEST MACHINE 1
TEST STATION 2
DATE & TIME:

4 Hours		6 Hours		24 Hours		
START	<u>5/28/70</u>	<u>1640</u>	<u>5/28/70</u>	<u>2040</u>	<u>5/31/70</u>	<u>0240</u>
FINISH	<u>5/28/70</u>	<u>2040</u>	<u>5/29/70</u>	<u>0240</u>	<u>5/30/70</u>	<u>0240</u>

REQUIRED LOAD 1080 LBS. 1180 LBS. 1270 LBS.
LOAD APPLIED 1080 LBS. 1180 LBS. 1270 LBS.
TEST SPEED 50 MPH 50 MPH 50 MPH
TEST CELL TEMP °F, START/FINISH 103 °F 100 °F 100 °F 99 °F 99 °F 100 °F
TIRE INFLATION PRESSURE AT FINISH 29.5 PSI 30 PSI 30.5 PSI
POST TEST INSPECTION (Tire and Rim) Satisfactory

(12)

[Signature]
6-10-70

REMARKS:

TEST PERFORMED BY:

Chen R

DATE:

5/10/70

REPORT APPROVED BY:

J. Herman

DATE:

6-3/70

(13)

Al. H. H. H.
6-10-70

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 HIGH SPEED PERFORMANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. G954010C

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. - 176
TIRE NAME FAVORIT ACTUAL PLYS: TREAD 4
SIDEWALL 4
PLY RATING 4 SIZE 7.00-13 TYPE/CONSTRUCTION Bias
SERIAL NO. 1709T95 CORD MATERIAL Rayon
MAX. INFLATION PRESSURE 32.0 PSI MAX. LOAD RATING 1270 Lbs
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES 15 NO

PRE-TEST INSPECTION

TIRE INSPECTION Satisfactory
RIM SIZE AND NO. 13-5-J-3 RIM CONDITION Satisfactory
INITIAL INFLATION PRESSURE 30.0 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 0400 (HRS) 5/30/70
FINISH 0200 (HRS) 5/30/70
TOTAL CONDITIONING TIME 4 (HRS) 0 (MINS)
INFLATION PRESSURE ADJUSTED FROM 30.0 PSI TO 30.0 PSI

Station 1

McMurry
6-10-70

(14)

HIGH SPEED PERFORMANCE

DATE & TIME:	START FINISH	50 MPH BREAK IN	COOLING PERIOD	75 MPH TEST	80 MPH TEST	85 MPH TEST
		5/20/70 0950 5/30/70 1130		5/30/70 1150 5/30/70 1305	5/30/70 1305 5/30/70 1335	5/30/70 1335 5/30/70 1405
REQUIRED LOAD		1080		1080	1080	1080
LOAD APPLIED		1080		1080	1080	1080
TEST CELL TEMP °F	START	102	97	100	100	102
	FINISH	97	100	100	102	102
TIRE TEMP °F	START		150+			
	FINISH		109			
TEST SPEED		50		75	80	85
TIRE INFLATION PRESSURE AT END OF PERIOD		32.5	40 CT 30.0	40.5	41.0	41.5

POST TEST INSPECTION (TIRE AND RIM) SATISFACTORY

COMMENTS:

TEST PERFORMED BY: CLARK

DATE: 5/30/70

REPORT APPROVED BY: Harman

DATE: 6-3/70

(15)

McDermott
6-10-70

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

TIRE COMPLIANCE TEST

TEST NO. 6954013

FEDERAL MOTOR VEHICLE SAFETY STANDARD 109

TIRE IDENTIFICATION

BRAND NAME SEMPERIT PR6 MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME M 214 ACTUAL PLYS 4/6 PLY RATING 4
SIZE 7.35H-14 / 185H14 TYPE/CONSTRUCTION BIAS
CORD MATERIAL NYLON

<u>TEST PHASE</u>	<u>TIRE</u>	<u>REMARKS</u>
<u>LABLING:</u>	A	<u>SATISFACTORY</u>
	B	<u>SATISFACTORY</u>
	C	<u>SATISFACTORY</u>
PHYSICAL DIMENSION	A	<u>FAIL</u>
BEAD UNSEATING	A	<u>SATISFACTORY</u>
STRENGTH	A	<u>SATISFACTORY</u>
ENDURANCE	B	<u>SATISFACTORY</u>
HIGH SPEED	C	<u>SATISFACTORY</u>

TESTED TO OPA TEST PROCEDURE DATED 4-9-69 REVISED 5-5-69

EXCEPT FOR _____

SUBMITTED BY: J.B. Hughes DATE 6-4-70

LABORATORY SUPERVISOR

(Signature and Title)

[Signature]
6-10-70

(16)

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 TIRE DIMENSION, BEAD UNSEATING AND STRENGTH TEST RECORD

TIRE IDENTIFICATION

TEST NO. G954013A

BRAND NAME SEMPERIT PR 6 MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME M 214 ACTUAL PLYS: TREAD 6
SIDEWALL 4
PLY RATING 4 SIZE 7.35H-14/185H14 TYPE/CONSTRUCTION BIAS
SERIAL NO. 1784 T95 CORD MATERIAL NYLON
MAX. INFLATION PRESSURE 32 PSI MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PHYSICAL DIMENSION DATA

Pretest Inspection SATISFACTORY DATE 5-4-70
SPECIFIED INFL. PRESS. 24 PSI RIM SIZE & NO. 14-5-J-7
CONDITIONING:
START: DATE & TIME 5/4/70 1800 INFL. PRESS. 24 PSI ROOM TEMP. 72 °F
END: DATE & TIME 5/5/70 1800 INFL. PRESS. 24 PSI ROOM TEMP. 68 °F
INFLATION PRESSURE ADJUSTED TO: 24 PSI

OVER ALL WIDTH

1.	<u>7.34</u>
2.	<u>7.36</u>
3.	<u>7.31</u>
4.	<u>7.34</u>
5.	<u>7.37</u>
6.	<u>7.33</u>
Average	<u>7.34</u>

SECTION WIDTH

1.	<u>7.16</u>
2.	<u>7.18</u>
3.	<u>7.15</u>
4.	<u>7.20</u>
5.	<u>7.18</u>
6.	<u>7.16</u>
Average	<u>7.17</u>

O.D. 25.47

MAX. SECTION WIDTH PLUS 7% 7.81 Avg. SW. 7.17
MINIMUM SIZE FACTOR 32.92 ACTUAL SIZE FACTOR 32.64 **FAIL**
DIMENSIONS TAKEN BY: CLARK DATE: 5-5-70
REPORT APPROVED BY: Herman DATE: 5-27-70
(Signature and Title) (17) McDonald

TUBELESS TIRE BEAD UNSEATING RESISTANCE

TIRE INFL. PRESS. 24.0

DATE: 5-6-70

FORCE APPLIED

1. 2050 LBS.
2. 2050 LBS.
3. 2050 LBS.
4. 2050 LBS.
5. 3750 LBS. UNSEATED

Minimum Acceptable Force 2000 LBS.

TEST PERFORMED BY: STRoud

DATE: 5-6-70

REPORT APPROVED BY: Therman

(Signature and Title)

DATE: 5-27-70

TIRE STRENGTH

SPECIFIED INFL. PRESS. 24 PSI INITIAL PSI 24 END/3 Hrs. 24 PSI

ADJUSTED TO 24 PSI DATE STARTED 5-6-70 TIME 2045

FORCE - POUNDS

PENETRATION-INCHES

ENERGY - INCH-POUNDS

1. 1100 LBS.
2. 1095 LBS.
3. 1080 LBS.
4. 1050 LBS.
5. 2725 LBS.

1. 4.91 in.
2. 4.89 in.
3. 4.97 in.
4. 4.95 in.
5. 7.10 in.

1. 2701
2. 2677
3. 2684
4. 2673
5. 9851

MINIMUM BREAKING ENERGY REQUIRED: 2600 in LBS.

ACTUAL AVG. 2600 in LBS.

TEST PERFORMED BY: STRoud

DATE: 5-6-70

REPORT APPROVED BY: Therman

(Signature and Title)

DATE: 5-27-70

Adrian
6-10-70

(13)

OFFICE OF COMPLIANCE

NOT REPRODUCIBLE

FMVSS - 109 TIRES

INITIAL REPORT

PRIORITY NO. E-

OF

TEST FAILURE

TEST NO. 6954013ADATE OF REPORT 6-1-70 DATE OF TEST 5-5-70LABORATORY GENERAL TESTING LABORATORIES, HARTFORD, CT.TIRE SIZE 7.35H14/185H17TIRE MANUFACTURER SEMPERIT DOT NUMBER 176BRAND NAME SEMPERIT P26 TIRE NAME 17214SERIAL NUMBER 1784 T25 CONDITION DIRTYLOAD MATERIALS ASTM A104 ALT 0 TIRE POSITION FL AT 6PLY RATING 4 (TREAD) 24 (SIDEWALL) 24SPEED RATING 32 (TREAD) 32 (SIDEWALL) 32TEST METHOD 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100TEST RESULT 100 (TREAD) 100 (SIDEWALL) 100

(19)

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 100 TIRE ENDURANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. C9S4013B
BRAND NAME SEMPERIT PR 6 MANUFACTURER SEMPERIT DOT NO. - 176
TIRE NAME M214 ACTUAL PLYS: TREAD 6
SIDEWALL 4
PLY RATING 4 SIZE 735H14/185H14 TYPE/CONSTRUCTION Bias
SERIAL NO. 1784795 CORD MATERIAL Union
MAX. INFLATION PRESSURE 32PSI MAX. LOAD RATING 1360 LBS
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PRE-TEST INSPECTION

TIRE INSPECTION Satisfactory
RIM SIZE AND NO. 14-5.2-10 RIM CONDITION Satisfactory
INITIAL INFLATION PRESSURE 24.0 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 1100 (HRS) 5/11/70
FINISH 1500 (HRS) 5/12/70
TOTAL CONDITIONING TIME 78 (HRS) 8 (MINS)
INFLATION PRESSURE ADJUSTED FROM 24.0 PSI TO 24.0 PSI

ENDURANCE TEST

TEST MACHINE 1
TEST STATION 2
DATE & TIME:

	4 Hours	6 Hours	24 Hours
START	<u>5/12/70 1705</u>	<u>5/12/70 2105</u>	<u>5/13/70 0305</u>
FINISH	<u>5/12/70 2105</u>	<u>5/13/70 0305</u>	<u>5/14/70 0305</u>
REQUIRED LOAD	<u>1160</u> LBS.	<u>1160</u> LBS.	<u>1360</u> LBS.
LOAD APPLIED	<u>1160</u> LBS.	<u>1260</u> LBS.	<u>1360</u> LBS.
TEST SPEED	<u>50</u> MPH	<u>50</u> MPH	<u>50</u> MPH
TEST CELL TEMP °F, START/FINISH	<u>100</u> °F <u>99</u> °F	<u>99</u> °F <u>100</u> °F	<u>100</u> °F <u>99</u> °F
TIRE INFLATION PRESSURE AT FINISH	<u>33</u> PSI	<u>34</u> PSI	<u>32</u> PSI
POST TEST INSPECTION (Tire & Rim)	<u>Satisfactory (20)</u> <u>Re-inspect 5/14/70</u>		

REMARKS:

Lined area for remarks.

TEST PERFORMED BY: Clark

DATE: 5/14/70

REPORT APPROVED BY: [Signature]

DATE: 5-27/70

(21) [Signature]
6-10-70

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 HIGH SPEED PERFORMANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. G934013C
BRAND NAME SEMPERIT PR6 MANUFACTURER SEMPERIT DOT NO. - 176
TIRE NAME N214 ACTUAL PLYS: TREAD 6
SIDEWALL 4
PLY RATING 4 SIZE 735H14/105H14 TYPE/CONSTRUCTION Bias
SERIAL NO. 1784 T95 CORD MATERIAL Nylon
MAX. INFLATION PRESSURE 32 PSI MAX. LOAD RATING 1360 LBS
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PRE-TEST INSPECTION

TIRE INSPECTION Satisfactory
RIM SIZE AND NO. 14-5-J-5 RIM CONDITION Satisfactory
INITIAL INFLATION PRESSURE 30.0 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 1100 (HRS) 5 / 11 / 70
FINISH 0800 (HRS) 5 / 12 / 70
TOTAL CONDITIONING TIME 1 (HRS) 0 (MINS)
INFLATION PRESSURE ADJUSTED FROM 31.0 PSI TO 30.0 PSI

Station 2

De Mianly
6-10-70

(22)

HIGH SPEED PERFORMANCE

DATE & TIME:	START FINISH	50 MPH BREAK IN	COOLING PERIOD	75 MPH TEST	80 MPH TEST	85 MPH TEST
		5/12/70 1440 5/12/70 1450	5/12/70 1210 5/12/70 1340	5/12/70 1340 5/12/70 1410	5/12/70 1410 5/12/70 1440	5/12/70 1440 5/12/70 1510
REQUIRED LOAD		1160		1160	1160	1160
LOAD APPLIED		1160		1160	1160	1160
TEST CELL TEMP °F	START	102	100	100	101	102
	FINISH	100	100	101	102	102
TIRE TEMP °F	START		150+			
	FINISH		99			
TEST SPEED		50	29.0 CT	75	80	85
TIRE INFLATION PRESSURE AT END OF PERIOD		37.0	30.0	40.5	41.5	42.0

POST TEST INSPECTION (TIRE AND RIM)

SATISFACTORY

COMMENTS:

TEST PERFORMED BY: FERGUSON

DATE: 5-12-70

REPORT APPROVED BY:

J. J. J. J.

DATE: 5-27-70

(23)

6-10-70

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

TIRE COMPLIANCE TEST

TEST NO. 6954012

FEDERAL MOTOR VEHICLE SAFETY STANDARD 109

TIRE IDENTIFICATION

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME SUPERART 115S ACTUAL PLYS 2/6 PLY RATING 4
SIZE 185 SR 14 TYPE/CONSTRUCTION RADIAL
CORD MATERIAL RAYON

<u>TEST PHASE</u>	<u>TIRE</u>	<u>REMARKS</u>
<u>LABELING:</u>	A	<u>SATISFACTORY</u>
	B	<u>SATISFACTORY</u>
	C	<u>SATISFACTORY</u>
<u>PHYSICAL DIMENSION</u>	A	<u>SATISFACTORY</u>
<u>BEAD UNSEATING</u>	A	<u>SATISFACTORY</u>
<u>STRENGTH</u>	A	<u>SATISFACTORY</u>
<u>ENDURANCE</u>	B	<u>SATISFACTORY</u>
<u>HIGH SPEED</u>	C	<u>SATISFACTORY</u>

TESTED TO OPA TEST PROCEDURE DATED 4-9-69 REVISED 5-5-69

EXCEPT FOR

SUBMITTED BY:

W.B. Ames
LABORATORY SUPERVISOR

DATE 6-4-70

(Signature and Title)

W.B. Ames
6-10-70

(24)

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 100 TIRE DIMENSION, BEAD UNSEATING AND STRENGTH TEST RECORD

TIRE IDENTIFICATION

TEST NO. G954012A

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME SUPER SPORT M/S ACTUAL PLYS: TREAD 6
SIDEWALL 2
PLY RATING 4 SIZE 185 SR 14 TYPE/CONSTRUCTION RADIAL
SERIAL NO. 1673 T110 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32 MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PHYSICAL DIMENSION DATA

Pretest Inspection SATISFACTORY DATE 3/7/70
SPECIFIED INFL. PRESS. 24 PSI RIM SIZE & NO. 14-5 J-3

CONDITIONING:

START: DATE & TIME 3/7/70 1800 INFL. PRESS. 24 PSI ROOM TEMP. 72
END: DATE & TIME 3/9/70 1000 INFL. PRESS. 24 PSI ROOM TEMP. 62
INFLATION PRESSURE ADJUSTED TO: 24 PSI

OVER ALL WIDTH

1.	2.36	IN
2.	2.38	IN
3.	2.39	IN
4.	2.36	IN
5.	2.39	IN
6.	2.39	IN
Average	2.38	IN

SECTION WIDTH

1.	S
2.	S
3.	A
4.	M
5.	AS
6.	OVERALL E WIDTH
Average	

MAX. SECTION WIDTH PLUS T 7.81 IN O.D. 26.07 IN
Avg. SW. 7.38 IN

MINIMUM SIZE FACTOR 32.59 IN ACTUAL SIZE FACTOR 33.45 IN

DIMENSIONS TAKEN BY: Q. Hall DATE: 3/9/70

REPORT APPROVED BY: [Signature] DATE: 5/18/70

(25)

4-4-70

TUBELESS TIRE BEAD UNSEATING RESISTANCE

TIRE INFL. PRESS. _____

24

DATE: _____

3/9/70

FORCE APPLIED

1. 2000 LBS
2. 2000 LBS
3. 2000 LBS
4. 2000 LBS
5. 3400 LBS L/INSEAT

Minimum Acceptable Force 2000 LBS

TEST PERFORMED BY: _____

D. E. Hall

DATE: _____

3/9/70

REPORT APPROVED BY: _____

T. B. Hays
(Signature and Title)
LABORATORY SUPERVISOR

DATE: _____

3/18/70

TIRE STRENGTH

SPECIFIED INFL. PRESS. _____

24

PSI

INITIAL PSI 24

END/3 Hrs. 24 PSI

ADJUSTED TO _____

24

PSI

DATE STARTED 3/17/70

TIME 1140

FORCE - POUNDS

PENETRATION-INCHES

ENERGY - INCH-POUNDS

1. 1320 LBS
2. 1320 LBS
3. 1320 LBS
4. 1320 LBS
5. 1980 LBS

1. 4.1 IN
2. 4.1 IN
3. 4.1 IN
4. 4.1 IN
5. 5.92 IN

1. 2706.0 IN LBS
2. 2706.0 IN LBS
3. 2706.0 IN LBS
4. 2706.0 IN LBS
5. 5860.8 IN LBS

MINIMUM BREAKING ENERGY REQUIRED: 2600 IN LBS

ACTUAL AVG. OVER 2600 IN LBS

TEST PERFORMED BY: _____

D. E. Hall

DATE: _____

3/17/70

REPORT APPROVED BY: _____

T. B. Hays
(Signature and Title)
LABORATORY SUPERVISOR

DATE: _____

3/18/70

W. J. Meany
4-4-70

(26)

CENTRAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 100 TIRE ENDURANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. G9540128
BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME M&S SUPERSAAT ACTUAL PLYS: TREAD 6
SIDEWALL 2
PLY RATING 759 SIZE 185SR14 TYPE/CONSTRUCTION RADIAL
SERIAL NO. 1673 T110 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32 MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ✓ NO

PRE-TEST INSPECTION

TIRE INSPECTION SATISFACTORY
RIM SIZE AND NO. 14-5-J9 RIM CONDITION SATISFACTORY
INITIAL INFLATION PRESSURE 30.24 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 1530 (HRS) 3/4/70
FINISH 1830 (HRS) 3/4/70
TOTAL CONDITIONING TIME 3 (HRS) 0 (MIN.)
INFLATION PRESSURE ADJUSTED FROM 24 PSI TO 24 PSI

ENDURANCE TEST

TEST MACHINE 1
TEST STATION 2
DATE & TIME:
4 Hours: START 3/4/70 2215 FINISH 3/5/70 0215
6 Hours: START 3/5/70 0215 FINISH 3/5/70 0815
24 Hours: START 3/5/70 0815 FINISH 3/6/70 0815
REQUIRED LOAD 1160 LBS. 1260 LBS. 1360 LBS.
LOAD APPLIED 1160 LBS. 1260 LBS. 1360 LBS.
TEST SPEED 50 MPH 50 MPH 50 MPH
TEST CHILL TEST °F, START/FINISH 102 °F 100 °F 100 °F 102 °F 102 °F 101 °F
TIRE INFLATION PRESSURE AT FINISH 30 PSI (27) 30 PSI 29 PSI
POST TEST INSPECTION (TREAD & RIM) SATISFACTORY 7/2/70 4.4.70

REMARKS:

TEST PERFORMED BY:

Holl

DATE:

3-6-70

REPORT APPROVED BY:

W B Hays

DATE:

5-31-70

W B Hays
4-4-70
(28)

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 HIGH SPEED PERFORMANCE TEST RECORD

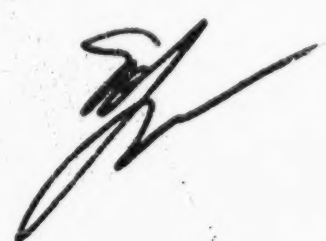
TIRE IDENTIFICATION

TEST NO. G954012C

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME M+S Supersport ACTUAL PLYS: TREAD 6
SIDEWALL 2
PLY RATING 4 SIZE 185 SR 14 TYPE/CONSTRUCTION RADIAL
SERIAL NO. 1673 T110 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32 MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PRE-TEST INSPECTION

TIRE INSPECTION SATISFACTORY
RIM SIZE AND NO. 14-5 - J-3 RIM CONDITION SATISFACTORY
INITIAL INFLATION PRESSURE 30 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 0100 (HRS) 3/24/70
FINISH 0430 (HRS) 3/24/70
TOTAL CONDITIONING TIME 3 (HRS) 30 (MINS)
INFLATION PRESSURE ADJUSTED FROM 32 PSI TO 30 PSI



HIGH SPEED PERFORMANCE

		50 MPH BREAK IN	COOLING PERIOD	75 MPH TEST	80 MPH TEST	85 MPH TEST
DATE & TIME:	START	3/24/70 0520	3/24/70 0700	3/24/70 0830	3/24/70 0900	
	FINISH	3/24/70 0700	3/24/70 0830	3/24/70 0900	3/24/70 0930	
REQUIRED LOAD		1160		1160	1160	1160 1160 1160 1160
LOAD APPLIED		1160		1160	1160	
TEST CELL TEMP °F	START	100	99.5	98	100	
	FINISH	99.5	98	100	100	
TIRE TEMP °F	START		130			
	FINISH		102			
TEST SPEED		50		75	80	
TIRE INFLATION PRESSURE AT END OF PERIOD		36	30	37	37.5	

POST TEST INSPECTION (TIRE AND RIM) SATISFACTORY

COMMENTS:

TEST PERFORMED BY:

De Hall

DATE:

3/24/70

REPORT APPROVED BY:

W.B. Hayes

DATE:

3-31-70

W. W. W. W.
44-70

(30)

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

TIRE COMPLIANCE TEST

TEST NO. 6954011

FEDERAL MOTOR VEHICLE SAFETY STANDARD 109

TIRE IDENTIFICATION

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME SWAMPFOOT ACTUAL PLYS 2/6 PLY RATING 4
SIZE 185 HR14 TYPE/CONSTRUCTION RADIAL
CORD MATERIAL RAYON

<u>TEST PHASE</u>	<u>TIRE</u>	<u>REMARKS</u>
<u>LABFLING:</u>	A	<u>SATISFACTORY</u>
	B	<u>SATISFACTORY</u>
	C	<u>SATISFACTORY</u>
PHYSICAL DIMENSION	A	<u>SATISFACTORY</u>
BEAD UNSEATING	A	<u>SATISFACTORY</u>
STRENGTH	A	<u>SATISFACTORY</u>
ENDURANCE	B	<u>SATISFACTORY</u>
HIGH SPEED	C	<u>SATISFACTORY</u>

TESTED TO OPA TEST PROCEDURE DATED 4-9-69 REVISED 5-5-69

EXCEPT FOR _____

SUBMITTED BY: M. B. Hanks

DATE 6-4-70

LABORATORY SUPERVISOR

(Signature and Title)

(31)

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 100 TIRE DIMENSION, BEAD UNSEATING AND STRENGTH TEST RECORD

TIRE IDENTIFICATION

TEST NO. G95401 1A

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOE NO. 176
TIRE NAME SUPER SPORT ACTUAL PLYS: TREAD 6
SIDEWALL 2
PLY RATING 4 SIZE 185HR 14 TYPE/CONSTRUCTION RADIAL
SERIAL NO. 1766 T85 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32 MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PHYSICAL DIMENSION DATA

Pretest Inspection SATISFACTORY DATE 3/6/70
SPECIFIED INFL. PRESS. 24 PSI RIM SIZE & NO. 14-5-J-9

CONDITIONING:

START: DATE & TIME 3/6/70 1600 INFL. PRESS. 24 PSI ROOM TEMP. 69 °F
END: DATE & TIME 3/8/70 1400 INFL. PRESS. 24 PSI ROOM TEMP. 77 °F
INFLATION PRESSURE ADJUSTED TO: 24 PSI

OVER ALL WIDTH

1. 7.37 IN
2. 7.25 IN
3. 7.22 IN
4. 7.28 IN
5. 7.25 IN
6. 7.23 IN
Average 7.25 IN

SECTION WIDTH

1. S
2. S
3. A
4. M
5. AS
6. OVERALL WIDTH E
Average

O.D. 25.68 IN

MAX. SECTION WIDTH PLUS T₂ 7.81 IN Avg. SW. 7.25 IN

MINIMUM SIZE FACTOR 32.59 IN ACTUAL SIZE FACTOR 32.93 IN

DIMENSIONS TAKEN BY: D. Hall DATE: 3/8/70

REPORT APPROVED BY: [Signature] DATE: 3/18/70

LABORATORY SUPERVISOR

32

4-4-70

TUBELESS TIRE BEAD UNSEATING RESISTANCE

TIRE INFL. PRESS. 24 DATE: 3/8/70

FORCE APPLIED

1. 2000 LBS
2. 2000 LBS
3. 2000 LBS
4. 2000 LBS
5. 3,400 LBS UNSTAT

Minimum Acceptable Force 2000 LBS

TEST PERFORMED BY: DE Hall DATE: 3/8/70

REPORT APPROVED BY: THH Hales DATE: 3/18/70
(Signature and Title)
Laboratory Supervisor

TIRE STRENGTH

SPECIFIED INFL. PRESS. 24 PSI INITIAL PSI 24 END/3 Hrs. 24 PSI

ADJUSTED TO 24 PSI DATE STARTED 3/17/70 TIME 1211

<u>FORCE - POUNDS</u>		<u>PENETRATION-INCHES</u>		<u>ENERGY - INCH-POUNDS</u>	
1.	<u>1325 LBS</u>	1.	<u>3.99 IN</u>	1.	<u>2643.4 IN LBS</u>
2.	<u>1325 LBS</u>	2.	<u>3.99 IN</u>	2.	<u>2643.4 IN LBS</u>
3.	<u>1330 LBS</u>	3.	<u>4.0 IN</u>	3.	<u>2660.0 IN LBS</u>
4.	<u>1330 LBS</u>	4.	<u>4.0 IN</u>	4.	<u>2660.0 IN LBS</u>
5.	<u>1400 LBS</u>	5.	<u>5.88 IN</u>	5.	<u>5576.0 IN LBS</u>

MINIMUM BREAKING ENERGY REQUIRED: 2600 IN LBS ACTUAL AVG. OVER 2600 IN LBS

TEST PERFORMED BY: DE Hall DATE: 3/17/70

REPORT APPROVED BY: THH Hales DATE: 3/18/70
(Signature and Title)
Laboratory Supervisor

John M. Hales
4-4-70

GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 TIRE ENDURANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. 69S4011B

BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME SUPER SPORT ACTUAL PLYS: TREAD 6
SIDEWALL 2
PLY RATING A 4 SIZE 185 HR 14 TYPE/CONSTRUCTION RADIAL
SERIAL NO. 1766 T 85 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32 MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PRE-TEST INSPECTION

TIRE INSPECTION SATISFACTORY
RIM SIZE AND NO. 14-5-J5 RIM CONDITION SATISFACTORY
INITIAL INFLATION PRESSURE 24 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 1530 (HRS) 3/4/70
FINISH 1830 (HRS) 3/4/70
TOTAL CONDITIONING TIME 3 (HRS) 0 (MINS)
INFLATION PRESSURE ADJUSTED FROM 27 PSI TO 24 PSI

ENDURANCE TEST

TEST MACHINE 1
TEST STATION 3
DATE & TIME:
START 3/4/70 2215 4 Hours 3/5/70 0215 6 Hours 3/5/70 0815 24 Hours
FINISH 3/5/70 0215 3/5/70 0815 3/6/70 0815
REQUIRED LOAD 1160 LBS. 1260 LBS. 1360 LBS.
LOAD APPLIED 1160 LBS. 1260 LBS. 1360 LBS.
TEST SPEED 50 MPH 50 MPH 50 MPH
TEST CELL TEMP °F, START/FINISH 102 °F 100 °F 100 °F 102 °F 102 °F 101 °F
TIRE INFLATION PRESSURE AT FINISH 29 PSI 39 PSI 29 PSI 28 PSI
POST TEST INSPECTION (TREAD & RIM) SATISFACTORY 2/11/70

REMARKS:

TEST PERFORMED BY:

HOLL

DATE:

3-6-70

REPORT APPROVED BY:

A.B. Hays

DATE:

5-31-70

J. M. Mawry
4-4-70
(35)

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GENERAL TESTING LABORATORIES
VEHICULAR LABORATORY
HARTWOOD, VIRGINIA

FMVSS 109 HIGH SPEED PERFORMANCE TEST RECORD

TIRE IDENTIFICATION

TEST NO. 6954011C
BRAND NAME SEMPERIT MANUFACTURER SEMPERIT DOT NO. 176
TIRE NAME SUPER SPORT ACTUAL PLYS: TREAD 6
SIDEWALL 2
PLY RATING B 4 SIZE 185 HR 14 TYPE/CONSTRUCTION RADIAL
SERIAL NO. 1766T85 CORD MATERIAL RAYON
MAX. INFLATION PRESSURE 32 MAX. LOAD RATING 1360
TREAD WEAR INDICATOR CHECK: 1/16 Inch YES ☒ NO ☐

PRE-TEST INSPECTION

TIRE INSPECTION SATISFACTORY
RIM SIZE AND NO. 14-5-J-9 RIM CONDITION SATISFACTORY
INITIAL INFLATION PRESSURE 30 PSI
CONDITIONING DATE & TIME AT 100°F ± 5: START 0100 (HRS) 3/24/70
FINISH 0430 (HRS) 3/24/70
TOTAL CONDITIONING TIME 3 (HRS) 30 (MINS)
INFLATION PRESSURE ADJUSTED FROM 31 PSI TO 30 PSI

W. D. D.
4-4-70

(36)

HIGH SPEED PERFORMANCE

DATE & TIME:	START FINISH	50 MPH BREAK IN	COOLING PERIOD	75 MPH TEST	80 MPH TEST	85 MPH TEST
		3/27/70 0900 3/27/70 0900	3/27/70 0900 3/27/70 0930	3/27/70 0930 3/27/70 0900	3/27/70 0900 3/27/70 0930	3/27/70 0930 3/27/70 1000
REQUIRED LOAD		1160		1160	1160	1160
LOAD APPLIED		1160		1160	1160	1160
TEST CELL TEMP °F	START	100	99.5	98	100	100
	FINISH	99.5	98	100	100	98
TIRE TEMP °F	START		134			
	FINISH		103			
TEST SPEED		50		75	80	85
TIRE INFLATION PRESSURE AT END OF PERIOD		36	30	37	37	37

POST TEST INSPECTION (TIRE AND RIM) SATISFACTORY

COMMENTS:

TEST PERFORMED BY:

DATE: 3/24 / 70

REPORT APPROVED BY:

DATE: 3-31-70

[Signature]
4-4-70
(37)